PP	PI Title	PSC	Customer Rep	РМ	Investigator	Priority	Status	Kickoff Meeting	Close-out Meeting	PI Results
PI -District-1	Construction, Maintenance, and Long Term Impacts to Old Growth Conifers Abutting Highways	D-1	Deborah Harmon	Harold Hunt	СТС	Completed	Completed	9/1/11		Satisfied with PI. PI was not posted on DRI's website because of the legal ramification in California on this topic.
PI-Disrict-4	The Relationship between Corner Curb Radius and Injury Severity at Locations with Pedestrian Crossings	D-4	Beth Thomas	Bob Justice	Tech Transfer Librarians	Completed		12/12/11		PI submitted as NCHRP candidate FY2013
PI-District-1	Traffic Noise Generated by Rumble Strips	D-1	Dana York	Joel Retanan	CTC	Completed	•	1/20/12		Satisfied with PI-research project
PI-District- North Region		North Region	David Melendrez/Sean Penders	Tam Nguyen / Fred Yazdan	стс	Completed		3/16/12		Satisfied with PI-next phase -PM (Fred Yazdan) will lead panel forth in new research project for FY 13/14.
PI-District-12	Automated Video Incident Detection System	D-12	Mort Fahrtash	Fred Yazdan	СТС	Completed		6/21/12		Next phase –PM (Fred Yazdan) will lead Panel in contacting Mass DOT, and proposing a new research project (Pilot project in D-7 and D-12) for FY 13/14.
PI-District-11	Optimum Amount of Money/Resources for Public Outreach During a Major Planned Closure	D-11	Laurie Berman	Melissa Clark	Melissa Clark	Completed				The project manager stated District 10 appeared to be satisfied with the final report no feedback was received.
PI-District-5	Forecasting Habitat Changes in the Scott Creek Estuary Due to Replacing the Bridge on SR 1 (Bridge # 360031)	D-5	Brandy Rider	Harold Hunt	СТС	Completed		7/9/14		The final report was shared with Public Affairs in District 5. The panel is considering going forward with a research project.

PP	PI Title	PSC	Customer Rep	РМ	Investigator	Priority	Status	Kickoff Meeting	Close-out Meeting	PI Results
PI-District-6	Safety and Viability of Bicycle Facilities in the San Joaquin Valley	D-6	Joanne Striebich	Harold Hunt	СТС	On-Hold	On-Hold			
PI-District12	Study on the use of 3rd-party GPS data for Mobility Performance Report (MPR) and Bottleneck Identification	Transp Safety & Mobility	Farid Nowshiravan	John Slonaker	СТС	On-Hold	On-Hold	3/15/13		
PI-0909-DC	Green Infrastructure - Guidelines to Implement Climate Change Adaptation Strategies in Highway Roadsides	Division of Design	Keith Robinson	Harold Hunt	СТС	Completed			2/11/10	Satisfied with PI
PI-0951-DC	Tree Safety	Division of Design	Keith Robinson	Harold Hunt	CTC	Completed	Completed		4/1/10	Satisfied with PI
PI-0919-Desigr	Roadside Management Strategies to Reduce Greenhouse Gases		Keith Robinson	Doug Brown	СТС	Completed		5/18/10	7/6/10	Satisfied with PI
PI-5911-Design		Division of Design	Said Ismail	Kamal Sah	СТС	Completed	·	5/1/11		Satisfied with PI
	Consultant vs. Staff Cost Comparison (2)	Division of Design	Said Ismail	Kamal Sah	СТС	Completed	•	8/1/11		Satisfied with PI
PI-0111-Design	Effectiveness of Traffic Calming Techniques	Division of Design	Doug Brown	Harold Hunt	СТС	Completed	Completed	3/28/11		Satisfied with PI-possible research project
PI-0212-Design	Partnering Benchmark Study	Division of Design	Mark Leja	Roya Hassas	СТС	Completed	Completed	1/3/12		Satisfied with PI possible research project

PP	PI Title	PSC	Customer Rep	РМ	Investigator	Priority	Status	Kickoff Meeting	Close-out Meeting	PI Results
PI-0312-Design	Enhanced Constructability Review (1)	Division of Design	Terry Abbott/ Tim Craggs/ Mark Leja/ Mark Turner	Kamal Sah	CTC	Completed	Completed	12/19/11	3/12/12	Satisfied with PI possible research project
PI-1112-Design	Enhanced Constructability Review (2)	Division of Design	Homar Noroozi, Juan Araya, Jesus Mora ,Mark Turner, Chuck Suszko, Jim Cotey	Haniel Chung	СТС	Completed		9/25/13	9/10/14	Panel will request DRISI Communication to do a Research Connection Work shop for the PI topic.
PI-0212-Design	Effects of Digital Outdoor Advertising Displays on Driver Safety	Division of Design	Doug Brown	Roya Hassas	СТС		Completed	6/6/12		PI Panel agreed to change the word "safety" to "driver behavior" in many cases throughout the PI report. Customer will send email with scope for possible research project through DRI or NCHRP.
PI-0102-Design	Low Profile Barrier Alternatives	Division of Design	Doug Brown	Fred Yazdan	СТС		Completed	2/4/13	8/22/13	John Jewel's office will prepare a memo to be signed by Randy Hiatt requesting FHWA approval to use Washington DOT's 20 inch low profile barriers with backfill without testing. If the request is not approved might consider further research.
PI-0212-Design	The State of the Practice of Transportation Landscape Architects (P956)	Division of Design	Jennifer Taira	Gloria Gwynne	СТС	Completed		7/7/14	11/10/14	CTC delivered the final the draft report on Roles of Landscape Architects on 11/10/14. Panel made a few revision. Once revision are made report will be closed out.

PP	PI Title	PSC	Customer Rep	РМ	Investigator	Priority	Status	Kickoff Meeting	Close-out Meeting	PI Results
PI-0314-Design	Cycle Track	Division of Design	Kevin Herritt	Gloria Gwynne						Design will share the findings with Traffic Opertation to develop a cycle track guideline.
						Completed	Completed	1/5/15	7/20/15	
	Highway soil compaction and safety for storm water treatment BMPs.	Division of Design	Sean Penders PE, Ray Tritt	Sukhdeep Nagra	СТС					Satisfied with PI-Will proceed forth with a research project.
						Completed	Completed	4/12/15	8/20/15	
	, 0	Division of Design	Janice Benton and Ray Tritt	Sukhdeep Nagra	СТС	Completed	Completed	6/1/14	7/1/15	Satisfied with PI
	· · ·	Division of Design	Glenn DeCou, Paul Davies , Leo Martinez	Sukhdeep Nagra		No longer needed	No longer needed	5, ,, , ,		PI is no longer needed the Caltrans in-house Pilot Study for this same project which concluded further research was needed.
	, 0	Division of Design	Jennifer Taira,Dawn Grinstain,Duper Tong, Theresa Drum, Jack Broadbent	Gloria Gwynne	СТС	In-progress	In-progress	11/9/15		

PP	PI Title	PSC	Customer Rep	РМ	Investigator	Priority	Status	Kickoff Meeting	Close-out Meeting	PI Results
	Establishing Native Plants, Long- Term Success Rates & Cost/Benefits of Specific Planting	Division of Design	Jennifer Taira	Harold Hunt		1	In-queue			
PI-0104-Design		Division of Design	Jennifer Taira			2	In-queue			
PI-0928-Design	· ·	Division of Design	Jennifer Taira	Doug Brown	Student	No longer needed	No longer needed	6/1/10		
PI-0715- Contruction	Cost-Benefit Analysis for the Use of Automatic Machine Guidance in Construction	Division of Construction	Ken Darby	David Lim	СТС	Completed	Completed	5/7/15		CTC delivered the final report. I will schedule the next/step close out meeting.
PI-0815- Consruction	10000 01100011000 01 01001119	Division of Construction	Celso Izquierdo, Chuck Suszko, Michael Samadian	Joe Horton	СТС	In-progress				
PI-1115- Construction	Construction Safety Coodinator	Division of Construction	Samir Ead,Randy Hiatt, Chuck Suszko, Celso Izqierdo,Ed Yarbourgh	John Jewell	СТС	In progress	In progress	11/5/15		CTC provided the planned scope on 11/23/2015.
PI-0803-DRISI	Real-Time Data to Improve En Route Decision Making and Reduce Transportation Demand (NCHRP Candidate)	DRISI	Sheila Chowdury/ Thomas Schriber	Hassan Aboukhadijeh	СТС	In-progress Pilot	Completed		7/1/09	NCHRP Success
PI-0211-DRISI		DRISI	Rebecca Boyer	Rebecca Boyer	СТС	Completed	Completed	2/11/11		Satisfied with PI results used for March 2011 Peer Exchange
PI-0901-DRISI	Intellectual Property: National and International Perspectives	DRISI	Larry Orcutt		СТС	Completed	Completed		6/1/10	Satisfied with PI

PP	PI Title	PSC	Customer Rep	РМ	Investigator	Priority	Status	Kickoff Meeting	Close-out Meeting	PI Results
PI-0812-DRISI	Application of Cross-Asset Optimization in Transportation Asset Management: A Survey of State Practice and Related Research.	DRISI	Steve Guenther	K Scott Williams	СТС	Completed	Completed	1/13/12		PI results were used to develop white paper for Executive Board.
PI-0113-DRISI			Debra Prichard,Nizar Melehani,Pam Korte,Barry Padilla,Rahul Srivastava,Nancy Chinlund, Nicole Longoria, Norma Ortega, Kome Ajise, Coco Briseno	K Scott Williams	СТС		Completed	12/19/12		Customers were pleased with the PI, and may be requesting a future follow-on PI to dig down into the more progressive states to ask questions about their implementation costs and strategies.
PI-0902-DRISI	Intellectual Property: California	DRISI				No longer needed	No longer needed	12/13/12	2/4/10	
PI-1112-DRISI	Impacts of Increasing Vehicle- Occupancy Requirements on HOV/HOT Lanes	DRISI	Joseph Rouse	Fred Yazdan	СТС	Completed	Completed	12/20/12		CTC delivered the PI and case studies on 4/5/13. Satisfied with PI.
PI-1112-DRISI	Geospatial Highway Inventory and Traffic Safety Application	DRISI	Mark Samuelson	Mandy Chu	СТС	Completed		7/19/13	11/19/13	Satisfied with PI
PI-12016-DRIS	Tools for Measuring the Impact of Active Transportation on VMT	DRISI	Darwin Moosavi	Lauren Iacobucci	СТС	1	In-queue			
PI-0725-DRISI	Models of Project Delivery Workforce Development in Transportation	DRISI	Said Ismail	TBD	СТС	In-progress		7/31/15		CTC will delivered the draft report 12/1/15.
PI-0715-DRISI	Resiliency Strategies for Transportation Systems	DRISI	Nick Burmas	Nick Burmas	СТС	In-progress		8/20/15		CTC delivered the final draft report on 11//29/15.

PP	PI Title	PSC	Customer Rep	РМ	Investigator	Priority	Status	Kickoff Meeting	Close-out Meeting	PI Results
	Quantifying Passenger Rail Access Mode Shift	DRISI	Brian Stanke		CTC	In-progress	In-progress	1/27/16		
	Environmentally Friendly Elimination of Moss Pavement Enhance Safety	Environmental	Deborah Harmon	Harold Hunt	CTC	Completed		2/8/11		Satisfied with PI-possible research project
PI-1015-EV	Cultural Resources Public Outreach	Environmental	Glenn Gmoser	Harold Hunt	CTC	Completed	Completed	10/28/10		Satisfied with PI-PI submit as a candidate for the Synthesis FY 2013
	Use of Cool Pavements to Reduce Energy Use and Mitigate Greenhouse Gas Emissions	Environmental	Bruce Rymer	Harold Hunt	Tech Transfer Librarians	Completed	Completed	6/8/11		Satisfied with PI results used at an environmental conference
	Comparative Life Cycle Costs of Culverts That Provide Unimpeded Fish and Wildlife Movement	Environmental	Amy Pettler/ Richard Hill	Harold Hunt	СТС	Completed	Completed	9/13/12		Satisfied with PI-possible research project
	Promoting the Ability of Sensitive Reptiles and Amphibians to Cross Highway Corridors (1)	Environmental	Margaret Gabil	Harold Hunt	СТС	Completed	·	8/24/12		Panel wants to pursue a follow- on PI, on California species' life history and habitat requirements. With Kendra Levine, at UC Berkeley Library.
	Promoting the Ability of Sensitive Reptiles and Amphibians to Cross Highway Corridors (2)	Environmental	Amy Pettler/ Richard Hill	Harold Hunt	Tech Transfer Librarians	Completed		4/3/13		Next step research project Harold Hunt will contact the Fish & Wildlife and USGS for a list of their interest and pressing issue on this topic.

PP	PI Title	PSC	Customer Rep	РМ	Investigator	Priority	Status	Kickoff Meeting	Close-out Meeting	PI Results
PI-0214-EV	Improved Exclusion Barriers for Desert Tortoises	Environmental	Kyle Myrick, Amy Golden, Scott Quinnell	Harold Hunt	DRISI (In House PI)	Completed	Completed	4/3/14		Panel wants to develop an Official Design Drawing (engineering system). Harold Hunt and Amy Golden (Env) develop the design plans.
PI-0614-EV	Fencing and One-Way Gates to Reduce Wildlife-Vehicle Collisions for Small and Medium Sized Animals	Environmental	Celina Oliveri	Harold Hunt	СТС	Completed	Completed	6/11/14		Waiting for the NCHRP Project 25-25, Task 84 re: SR 23 PI report to be completed to determine to do a pool fund or research project
PI-0723-EV	Monitoring the Endangered tidewater goby using environmental DNA in water samples	Environmental	Amy Golden, Susan Leroy	Harold Hunt	СТС		Completed	11/21/14		Satisfied with PI findings. Will proceed forth with research project.
PI-0116-EV	Determining the Appropriate Amount of Time to Isolate Portland Cement Concrete from Receiving Waters	Environmental	Amy Golden, Margaret Lawrence	Harold Hunt	СТС	Completed		7/15/15		Findings from PI report was provided to California Department of Fish and Wildlife
PI-1215-EV	Tide Gate Hydraulic Analysis	Environmental	Bruce Swanger, Melinda Molnar, Amy Golden	Harold Hunt	СТС	In-progress		1/16/16		CTC delivered the final draft report on 3/4/16. Waiting for feedback from panel.
PI-1115-EV	California Tiger Salamander Landscape Genetics	Environmental	Amy Bailey, Jim Henke,Amy Golden, Nancy Siepel, Paul Andreano	Harold Hunt	СТС	1	In-queue			
PI-0923-EV	Statewide Cultural Property Information System	Environmental	Glenn Gmoser			2	In-queue			
PI-0932-EV		Environmental	Glenn Gmoser			3	In-queue			
PI-0939-EV	Geoarchaeological Sensitivity Modeling	Environmental	Glenn Gmoser			4	In-queue			

PP	PI Title	PSC	Customer Rep	РМ	Investigator	Priority	Status	Kickoff Meeting	Close-out Meeting	PI Results
PI-0943-EV	Cost Effective and Innovative Mitigation Practices	Environmental	Glenn Gmoser			5	In-queue			
PI-0946-EV	Practical Applications of Remote Sensing	Environmental	Glenn Gmoser			6	In-queue			
PI-0949-EV	Research Contexts for Archaeology and History	Environmental	Glenn Gmoser			7	In-queue			
PI-1014-EV	Joshua Trees (Yucca Brevifolia) and Highway Safety	Environmental	Paul Caron			No longer needed	No longer needed	6/8/10		
PI-0947-GS		Geotech/ Structural	Charles Sikorsky			No longer needed	No longer needed			
PI-0913-GS	Evaluate Premixed Polyester	Geotech/ Structural	Mike Keever/ Paul Chung			No longer needed	No longer needed			
PI-0933-GS	• •	Geotech/ Structural	Sue Hida	Sue Hida	СТС	Completed	Completed	11/2/09	1/10/10	DRI Research Project

PP	PI Title	PSC	Customer Rep	РМ	Investigator	Priority	Status	Kickoff Meeting	Close-out Meeting	PI Results
PI-0940-GS	1 ' '	Geotech/ Structural	Mark Willian	Bill Owen	Bill Owen					
DI 1011 00	0: 10: 1 5 10 10!	0 1 1/	l: 5			Completed	Completed		3/29/10	Satisfied with PI
PI-1011-GS		Geotech/ Structural	Lian Duan	Charles Sikorsky	Charles Siorsky	Completed	Completed	10/28/10	10/28/10	
PI-0913-GS	Unmanned Aerial Systems (UAS)	Geotech/	Ron Karpowicz, John Duffy, Craig Hannenian, Jim Morris,	Loren Turner	стс	Completed	·	5/27/14		Panel will proceed forth with a research project and NCHRP process.
PI-0915-GS	Development of a Validated Methodology for Seismic Analysis and Design of Standard & Pile Supported	Geotech/ Structural	Charles Sikorsky	Nick Burmas	Hamid Sadraie	Completed			9/21/15	Research project task ID: 2879
PI-0928-GS		Geotech/ Structural	Charles Sikorsky	Nick Burmas	Hamid Sadraie	Completed				Research projectTask ID: 2781
PI-09131-GS		Structural	Bill Webster, Jim Duffy,Brian Hinman,Craig Hannenian,	Loren Turner		Hold	Hold		0/20/10	Trocoaron project rack 15. 2701
PI-0944-GS	Calibration of the CEB Equations for Shrinkage Prediction to Improve Bridge Designs		Mike Keever	Peter S. Lee		1	In-queue			
PI-0924-GS		Geotech/ Structural	Mike Keever/ Mike Johnson	Steve Sahs		2	In-queue			
PI-1111-DOE	TELIECTIVE MAHAGEMENT OF DOT	Division of Equipment	Larry Orcutt	Tori Kanzler	СТС	Completed	Completed			Satisfied with PI

PP	PI Title	PSC	Customer Rep	РМ	Investigator	Priority	Status	Kickoff Meeting	Close-out Meeting	PI Results
PI-0113-DOE	Effective Management of DOT Equipment (2)	Division of Equipment	Larry Orcutt	Bob Meline	CTC	Completed	Completed	2/5/13	4/21/13	Follow on for Fleet Equipment is a peer exchange.
PI-1111-DOE	GPS on Equipment	Division of Equipment	Larry Orcutt	Tori Kanzler	СТС	Completed	Completed	12/16/11	12/16/11	Research project and implementation
PI-1112-DOE	Fleet Equipment Asset Management-Performance Measures	Division of Equipment	Larry Orcutt	Bob Meline	СТС	Completed	Completed	12/6/12	12/28/12	PI submit as a candidate for NCHRP Synthesis FY 2013
PI-0614-DOE	Equipment Production and Procurement Costs	Division of Equipment	Kris Teague, Ed Giroux	Joe Horton	СТС		Completed	5/16/14	6/24/14	Satisfied with PI-
PI-1114-DOE	Best Practices of Ways to Reduce Illness and Injury Rate in Heavy Duty Mechanics	Division of Equipment	Mike Tanner, Lisa Kunzman, Bob Myers, Dave Roth	Robert Buendia	СТС		Completed	9/23/14	4/16/15	CTC completed a survey of current best practices and delivered the final report on 2/9/2015
PI-0315-DOE	Enhancing the Visibility of Caltrans Employees and Vehicles	Division of Equipment	Lisa Kunzman, Theresa Drum, Gordon Wang	Joe Horton	СТС	1	In-queue			
PI-01111-MA	Life cycle cost principles for reducing maintenance costs and worker exposure	Maintenance	Mike Evans	K Scott Williams	СТС	Completed	Completed	1/7/12	3/7/12	PI results were used to meet with Executive staff.
PI-07110-MA	Laws to deter the recycling of stolen metals	Maintenance	Steve Takigawa		СТС		Completed	,.2	0,,,,	Satisfied with PI-potential research project
PI-07111-MA	Highway Safety Education and Outreach	Maintenance	Larry Orcutt	Randy Woolley	СТС		Completed	6/28/11		Finding were used as a Safety performance measure for Executive staff.

PP	PI Title	PSC	Customer Rep	PM	Investigator	Priority	Status	Kickoff Meeting	Close-out Meeting	PI Results
PI-07112-MA	Highway Safety Policies and Legal Issues	Maintenance	Larry Orcutt	Randy Woolley	CTC	Completed	Completed	6/28/11		Finding were used as a Safety performance measure for Executive staff.
PI-07113-MA	Highway Safety Technologies	Maintenance	Larry Orcutt	Randy Woolley	CTC		Completed	6/28/11		Finding were used as a Safety performance measure for Executive staff.
PI-0908-MA	Quick Clearance for Major Traffic Incidents	Maintenance	Nader Eshghipour	Mandy Chu	СТС				0/0/40	DDI Decemble Decided
PI-0812-MA	Does crack sealing have negative effects on the coefficient of friction for single track vehicles such as motorcycles?	Maintenance	Peter Vacura/ Joe Peterson/ Chuck Suzko/ Craig Copeland	Joe Holland	TBD	Completed On-Hold	PSC has placed this PI on hold.	9/21/09	3/8/10	DRI Research Project
PI-0712-MA		Maintenance	Herby Lissade	Bob Meline	СТС	Completed		10/5/12	3/6/13	Will do a 2-part project plan: 1. Six month feasibility study with cost-benefit analysis on the options of purchasing vs. developing a flood warning system. 2. Purchase a or do in house project.
PI-1113-MA	Best design practices and products to deter copper wire theft.	Maintenance	Gonzalo Gomez/Agustin Rosales	Hassan Aboukhadijeh	СТС					PI findings supports the Wire Theft Prevention Task Team methodologies.
PI-0714-MA	Traction Device study	Maintenance	David Frame	Bob Meline	СТС	Completed	Completed	3/25/13 5/27/14	5/24/13 8/22/14	CTC delivered the final PI report on 7/21/14. PI results will be shared with CHP. This will possibly be a research project.

PP	PI Title	PSC	Customer Rep	РМ	Investigator	Priority	Status	Kickoff Meeting	Close-out Meeting	PI Results
PI-0914-MA	Avalanche Mapping Study	Maintenance	David Frame	Bob Meline	AHMCT					AHMCT finished the PI for the Avalanche Mapping task(Task ID 2734). Maintenance was satisfied with the results.
						Completed	Completed		4/17/15	
PI-0914-MA	FIRECAST	Maintenance	Rene Garcia	Joe Horton	СТС	, , , , , , , , , , , , , , , , , , ,				Panel members discussed doing a Firecast study will work with Joe Horton and staff
						Completed	Completed	9/12/14	1/9/15	
PI-0213-MA	Variances in advanced warning signage	Maintenance	Theresa Drum	Joe Horton	СТС	Completed	Completed	1/22/15		The report showed Caltrans is above the level of other states for use of signage, PCMS and MAZEEP in workzones,
PI-0715-MA	Wrong-Way Driving Prevention Methods	Maintenance	Mike Hagen, Deb Larson, Brian Hadley, Jerry Champs,Prakash Sah, Great Larson Joe Horton	Lai Saetern	СТС					Final report has been posted on DRISI web site
PI-0215-MA	Highways Median Barrier	Maintenance	Duper Tong, Randy Hiatt, Thomas Schriber, Agustin Rosales, Gonzalo Gomez, Patti-Jo Dickinson		СТС	Completed	·	6/23/15		Satisfied with PI
PI-0515-MA	Strategies for Replacing Field Elements	Maintenance	Fatti-Jo Dickinson Ferdinand Milanes, Takeshi Tokunaga, Jason Akbari, Michelle Alvarado, Augie Rosales, Gonzalo Gomez		СТС	Completed	Completed	3/6/15 6/26/15	5/15/15 1/8/16	Satisfied with PI

PP	PI Title	PSC	Customer Rep	РМ	Investigator	Priority	Status	Kickoff Meeting	Close-out Meeting	Pl Results
PI-0914-MA	Automated Steering and control of paint striping machine	Maintenance	Gonzalo Gomez	Joe Horton	СТС	No longer needed	No longer needed			Joe Horton stated in maintenance's pre PSC meeting the PI is no longer needed.
PI-0114-MO	State Aeronautics Role in an Emergency Air Operations Branch	Modal	Derek Kantar, Herby Lissade, Terry Barrie, Patrick J Miles, Dan Reese, Phillip Miller, Chris Avina	Patrick Tyner	СТС	Completed	Completed	3/16/14		The PI helped to complete the rewrite of the Air Coordination Group Concept of Operations that's reviewed at Cal OES
PI-0314-MO	Demand Responsive Transit Operation Based on Dynamic Passenger Information	Modal	Scott Sauer	Bradley Mizuno	Lee Provost	Completed	Completed	4/1/14	4/15/14	Satisfied with PI-possible research project
PI-0920-MO	Transit Data and Planning Integration	Modal	Scott Sauer	Bob Justice	СТС	·	Completed	4/3/12		To be addressed in a MTI research study beg Sept 2013, involving Traffic Ops, DMT, DOTP, and DIRSI"
PI-0936-MO	Assessing Park and Ride Impacts	Modal	Scott Sauer	Bob Justice	СТС	Completed	·	3/24/10		TCRP Project
PI-0903-MO	Disaster Recovery Planning	Modal	Colette Armao	Dan Lovegren	СТС	Completed	Completed	6/18/09	3/2/10	DRI Research Project
PI-0915-MO	Transit Oriented Development (TOD) Evaluations	Modal	Jila Priebe	Bob Justice	Student	No longer needed	No longer needed			,
PI-0929-MO	Passenger Locomotive Air Quality	Modal	Ken Galt	Dan Lovegren	0.70	No longer needed	No longer needed	10/0/00	0/40/20	TDE music et
PI-0910-PA	HMA Taper Specification/ Details	Pavement	Chris Cummings	Joe Holland	CTC	Completed	Completed	12/2/09	3/16/10	TPF project

PP	PI Title	PSC	Customer Rep	РМ	Investigator	Priority	Status	Kickoff Meeting	Close-out Meeting	PI Results
PI-0312-PA	Recycled Concrete	Pavement	Dan Speer/ Bill Farnbach	Joe Holland	СТС	Completed	Completed	3/13/12		Satisfied with PI possible research project
PI-0315-PA	Joint Training and Certification of Materials Testers	Pavement	Joe Peterson	Joe Holland	СТС	Completed	Completed	2/18/15	4/10/15	Satisfied with PI report
PI-0921-PA	20 Year Flexible Pavement Rehabilitation	Pavement	Bill Farnbach			No longer needed	No longer needed	2/10/13	4/10/13	Satisfied with Fireport
PI-0930-PA	Interlayer for Cracking Reduction	Pavement	Bill Farnbach			No longer needed	No longer needed			
PI-0937-PA	Automatic Asphalt Concrete Quantities Estimation	Pavement	Terrie Bressette			No longer needed	No longer needed			
PI-0942-PA	Slabs	Pavement	Kirsten Stahl			No longer needed	No longer needed			
PI-0953-PPSI	•	, ,	Nathan Smith/ Marlon Flournoy	Paul Moore	СТС	Completed	Completed	8/10/10	1/11/11	Satisfied with PI
PI-1101-PPSI	Developing Air Quality Mitigation	Policy/Planning/ Programming	David Ipps	Patrick Tyner	СТС	·	Completed	1/31/11		Satisfied with PI-will request research project
PI-0916-PPSI	California Best Practices for Rural and Tribal Smart Growth (1)	,	Marilee Mortenson/ Terry Parker	Bob Justice	СТС	Completed	Completed	4/13/10	8/11/10	Satisfied with PI
PI-1003-PPSI	Inactive and Abandoned Rail Corridor Preservation Study	Policy/Planning/ Programming	Todd LaCasse	Matt Hanson	СТС	Completed	Completed	3/21/11	7/25/11	Satisfied with PI
PI-1112-PPSI	How Other Transportation Agencies Address Public Health Issues	Policy/Planning/ Programming	Garth Hopkins	Bob Justice	CTC	Completed	Completed	6/17/11		PI submitted as background material for NCHRP research project
PI-1108-PPSI		Programming	Chris Ratekin	Bob Justice	СТС	Completed	Completed	2/10/12		Satisfied with PI-
PI-0712-PPSI	Smart Mobility Performance Measurement Deployment (2)	Policy/Planning/ Programming	Chris Ratekin	Bob Justice	Tech Transfer Lib		Completed	6/12/12	7/12/12	Tech Transfer completed the final report

PP	PI Title	PSC	Customer Rep	РМ	Investigator	Priority	Status	Kickoff Meeting	Close-out Meeting	PI Results
PI-0413-PPSI	•	Policy/Planning/ Programming	Chris Ratekin	Bob Justice	СТС					Sustainable Transportation—Smart Mobility was not selected for funding for the NCHRP Synthesis studies.
						Completed	Completed	3/21/13	4/2/13	
PI-1111-PPSI		Policy/Planning/ Programming	Aileen Loe	Bob Justice	Tech Transfer Lib	Completed	Completed			Tech Transfer completed the final report
PI-1112-PPSI	Best Practices for Environmental	Policy/Planning/ Programming	Aileen Loe	Bob Justice	СТС	Completed				PI submitted as background material for NCHRP research project
PI-1109-PPSI	The influence of Transit on Highway Operations (1)		Fredrick Schermer/Erik Alm	Bob Justice	Tech Transfer Librarians	Completed		4/13/13	7/10/13	Tech Transfer delivered updated report on 9/25/13.
PI-0713-PPSI	The influence of Transit on Highway Operations (2)		Fredrick Schermer/Erik Alm	Bob Justice	СТС					Satisfied with PI
PI-0314-PPSI	1		Garth Hopkins, LaNae Van Valen, Rahul Srivastava, Julia Biggar, Joan Sollenberger, Nick Compin, Tom Pyle	Patrick Tyner	СТС	Completed		7/22/13 7/2/14	11/1/13	Satisfied with PI
PI-1110-PPSI	, ,	Policy/Planning/ Programming	Todd LaCasse/Joanne McDermott	Patrick Tyner	СТС	Completed	Completed	11/19/14		CTC delivered the final PI on moving freight on high-speed rail, which incorporates the latest changes received from Joanne McDermott on 4/27/15.

PP	PI Title	PSC	Customer Rep	РМ	Investigator	Priority	Status	Kickoff Meeting	Close-out Meeting	PI Results
PI-0115-PPSI	Methodologies for Mitigating Freight Impacts to Nearby Communities	Programming	Joanne McDermott, Marilee Mortenson , Emily Mraovich	Patrick Tyner	СТС	Completed	Completed	1/29/15		CTC plans to delivered final revised report by Friday, June 26.
PI-1112-PPSI	Return on Investment for Smart	Policy/Planning/				Completed	Completed	1/29/13	7/14/13	
1 1-1112-11 01		Programming				1	In-queue			
PI-1113-PPSI	Electrification of Highways for	Policy/Planning/ Programming				2	In-queue			
PI-1116-PPSI	·	Policy/Planning/ Programming	Kimberly Johnston-Dodds			3	In-queue			
PI-0952-PPSI	Community Engagement Practices	Policy/Planning/ Programming	Joshua Pulverman			4	In-queue			
	Analysis	Programming	Nathan Smith/ Mitch Baker			5	In-queue			
PI-0925-PPSI		Programming	Mike Brady/ Coco Briseno/ Bob Cervantes/ Nathan Smith/ Marilee Mortenson			6	In-queue			
	High-Speed Emissions in California (2)	Programming	David Ipps			7	In-queue			
PI-0945-PPSI		Policy/Planning/ Programming	Austin Lee							
						8	In-queue			

PP	PI Title	PSC	Customer Rep	РМ	Investigator	Priority	Status	Kickoff Meeting	Close-out Meeting	PI Results
PI-1115-PPSI		Policy/Planning/ Programming			No longer needed	No longer needed				
PI-0954-PPSI	Illegal Truck Parking and Roadside Safety in California (5)	Policy/Planning/ Programming	Jeffrey Spencer			No longer needed	No longer needed			
PI-0934-PPSI	Goods Movement Data Library	Programming	Mike Brady/ Vahid Nowshiravan/ Pam Korte	Marcus Evans		No longer needed	No longer needed			
PIP-08-PPSI	Transportation System Performance Measures (3)	Policy/Planning/ Programming	Coco Briseno	Bob Justice		No longer needed	No longer needed			
PI-0950-PPSI		Policy/Planning/ Programming	Nancy Chinlund		СТС	Pilot	Completed		3/1/09	DRI Research Project
	California Rural-Urban Interactive Study	Policy/Planning/ Programming	Terry Parker		Student (Kathleen)	In-queue	In-queue	4/30/10		
PI-1113-PPSI	Seamless Bike Survey	Policy/Planning/ Programming			Student (JoJo)	In-queue	In-queue	4/30/10		
	Positioning System (GPS) Network Implementation	Land Surveys	Scott Martin	Robert Buendia	СТС	Completed	Completed	9/9/14		The panel was satisfied the final report. The report was shared with other DOT's.
PI-13014-RW	Large Geospatial Datasets Management	Right of Way/ Land Surveys	Mark Turner	Randy Woolley		1	In-queue			Pending PI request

PP	PI Title	PSC	Customer Rep	РМ	Investigator	Priority	Status	Kickoff Meeting	Close-out Meeting	PI Results
PI-0917-RW		Right of Way/ Land Surveys	Mark Turner	Randy Woolley		2	In-queue			Pending PI request
PI-0216-RW	Right of Way Information Systems Review of Available Tools & Cost Analysis	Right of Way/ Land Surveys	Jean-Marie Hunter	Joe Horton	СТС	In-progress	·	3/16/16		
PI-0911-RW		Right of Way/ Land Surveys	James Appleton	Randy Woolley	СТС	Completed		10/28/09		Customer representative did not want the final report to be posted on DRISI's website.
PI-1013-RW	·	Right of Way/ Land Surveys	James Appleton	Randy Woolley	СТС					
PI-0214-RW	Aerial Pavement Surveys Literature Search	Right of Way/ Land Surveys	James Appleton	Randy Woolley	СТС	Completed		10/27/09	5/28/10	Satisfied with PI
						No longer needed	No longer needed	5/17/10		
PI-0918-RW	Standards for Global Navigational Satellite Systems	Right of Way/ Land Surveys	Mark Turner	Randy Woolley		No longer needed	No longer needed			
PI-0907-RU	Locate, Construct, Test, and	Right of Way/ Land Surveys	Kevin Akin			No longer needed	No longer needed			

PP	PI Title	PSC	Customer Rep	РМ	Investigator	Priority	Status	Kickoff Meeting	Close-out Meeting	PI Results
PI-1001-RU In	mproved Chain Control Operations		Ian Turnbull/ Tim Fitzpatrick	Sean Campbell	СТС	Completed	Completed	11/18/09	4/6/10	DRI Research Project
A	Effective Methods for Ensuring Accuracy of Roadway Temperature/Ice/Chemical Sensors	Rural	Mike Beyer, Ian Turnbull	Sean Campbell	СТС	Completed	·		4/0/10	CTC delivered the planned scope on 1/7/2015
U	Reducing Animal-Vehicle Collisions Jsing Vehicle-Mounted Heat Detection	Rural	Lonnie Hobbs, Ian Turnbull	Sean Campbell		1	In-queue			
PI-0906-SHSP In		Rural	Ian Turnbull	Sean Campbell	СТС	Completed		3/14/11	5/18/11	Satisfied with PI
P	Performance in High Speed,	SHSP CA-5 Transp Safety & Mobility	Wes Lum	Joel Retanan	СТС	Completed Completed	·	8/31/09		Satisfied with PI - possible 11/12 project
PI-1-CC Id	dentify Pedestrian Safety mprovement Programs and		Richard Haggstrom	Joel Retanan	СТС		Completed			DRI Research Project

PP	PI Title	PSC	Customer Rep	PM	Investigator	Priority	Status	Kickoff Meeting	Close-out Meeting	PI Results
	RFP to Upgrade Roadway and Roadside Visual Image and Attribute Data Collection and Distribution	System Performance Management	Matt Friedman	Asfand Siddiqui	СТС	Completed	Completed	7/9/14	6/23/15	Lee Provost completed the internal survey. Based on the findings from the PI report the panel have applied for funding from the feds to replace the photolog system.
PI-3-CC	Identifying best practices for evaluation in design innovations	Cross-Cutting	Janice BentonJanice Benton, Ray Tritt, Sukhdeep Nagra, Prakash, Sah, Greg Larson Design Jim Deluca, Larry Moore, Kevin Herritt	Sukhdeep Nagra	СТС				0,23,10	processes e years
	Caltrans Sustainability Goals- Methods to Quantify and Score Infrastructure Performance Measures	Cross-Cutting	Melissa Thompson	Lee Provost	СТС	Completed	Completed	3/26/15		
	Organizational Structure of Tolling Agencies	System Performance Management	Joe Rouse	Hassan Aboukhadijeh	In (House) PI completed by Roya Hassas	Completed	Completed	6/12/14	6/12/14	PI submitted as background material for NCHRP research project
PI-0938-TS&M	Equal Severity Curve Update		Alex Kennedy/ Thomas Schriber	Joel Retanan	СТС	·				Satisfied with PI - possible future
PI-1011-TS&M	Left Turn Flashing Yellow Arrow	Transportation Safety & Mobility	Ted Lombardi	Jerry Kwong	СТС		Completed Completed	11/19/10	7/1/09	project Satisfied with PI-possible 11/12 project

PP	PI Title	PSC	Customer Rep	РМ	Investigator	Priority	Status	Kickoff Meeting	Close-out Meeting	PI Results
PI-0922-TS&M	Bicycle Sign comprehension ("Bikes In Lane" Warning Sign)	Transportation Safety & Mobility	Dario Senor	Jerry Kwong	СТС	Completed	Completed	3/11/11	11/15/11	Satisfied with PI-possible research project
PI-0926-TS&M	Low Speed Temporary Sand Filled Crash Cushions	Transportation Safety & Mobility	Randy Hiatt	Vue Her	DRI	Completed	Completed	10/5/10	12/1/10	, social on project
PI-1005-TS&M	Queue Storage and Acceleration Lane Length Design at Metered Onramps	Transportation Safety & Mobility	Zhongren Wang/ Lester Lee	Jose D Perez	CTC	Completed	Completed	1/10/12		Satisfied with PI-research project
PI-1006-TS&M	Method for Identifying and Mitigating Highway Locations with High Risks under Wet Weather Conditions	Transportation Safety & Mobility	TBD	Haniel Chung		No longer needed	No longer needed			,
	Implementation of Centrally Controlled Adaptive Ramp Metering System	•	Zhongren Wang	Fred Yazdan		No longer needed	No longer needed			
	Enhanced Travel Times using historical and real-time data	Transportation Safety & Mobility	Diana Gomez	Fred Yazdan		No longer needed	No longer needed			
PI-0212-TS&M	Lane-by-lane Active Traffic Management	Transportation Safety & Mobility	Diana Gomez			No longer needed	No longer needed			
PI-1009-TS&M	Traveler Information using Social Network Systems	Transportation Safety & Mobility	Alan Bensen/ Mike Jenkinson			No longer needed	No longer needed			
PI-0202-TS&M	Galvanizing Metal Rail Elements	Transportation Safety & Mobility	Randy Hiatt	Vu Her	СТС	Completed	Completed	6/4/12	11/7/12	CTC report identify related research NCHRP Project 20-17 panel thinks the report should answer the question about the lifecycle of the two kinds of guard rail.

PP	PI Title	PSC	Customer Rep	РМ	Investigator	Priority	Status	Kickoff Meeting	Close-out Meeting	PI Results
PI-0931-TS&M	Field Operation Test on Dynamic 24-hours Traffic Responsive Ramp Metering Operations	Transportation Safety & Mobility	Zhongren Wang/ Lester Lee	Joel Retanan	СТС	Completed	Completed	5/17/13		We all agreed that a new research project is needed to do a before-and-after evaluation of a 24-hour traffic-responsive ramp metering.
PI-0613-TS&M	Nighttime Visibility and Headlight Glare	Transportation Safety & Mobility	Jerry Champa	Nate Loebs	СТС	Completed	Completed	2/27/13		The report provided information and knowledge of what is practiced by other State DOTs. No other investigative research is needed. Will recommend creating an "Internal Subcommittee Team" from Districts rep to lead the evaluation /update on the department existing lighting policy
PI-0613-TS&M	Proposal to relocate freeway exit gore signs	Transportation Safety & Mobility	Donald E. Howe	Randy Woolley/Triet Bui	СТС	Completed		7/29/13	11/14/13	14/15 Research project done through Maintenance PSC
PI-1213-TS&M	overhead sign structures without illumination	Transportation Safety & Mobility	Donald E. Howe	Randy Woolley/Triet Bui	СТС		Completed			Panel satisfied with findings
PI-0315-TS&M	Wrong-Way Driving Prevention Methods (Part 1)	Transportation Safety & Mobility	Thomas Schriber	Lai Saetern	In (House) PI completed by Lai Saetern	•	·	11/11/10		Panel satisfied with findings
PI-1015-TS&M	Wrong-Way Driving Prevention Methods (Part 2)	, ,	Jerry Champa, Mike Hagen, Deb Larson, Brian Hadley	Lai Saetern	СТС	Completed				CTC provided the final draft report 10/5/15. Waiting for feedback from panel members to finalize the report.
	inch high curb or dike	Safety & Mobility	Randy Hiatt	Christopher Caldwell	In(House) PI Christopher Caldwell	In-progress	In-progress			
PI-1015-TS&M	Best Practices for Interagency Transportation Software Change Management	Transportation Safety & Mobility	Stan Slavin	Pete Gurprit	СТС	In-progress	In-progress	3/11/16		

PP	PI Title	PSC	Customer Rep	РМ	Investigator	Priority	Status	Kickoff Meeting	Close-out Meeting	PI Results
PI-0315-TS&M	Bicycle Corrals	Transportation Safety & Mobility	Chris Engelmann / Donald E. Howe, Sr.			1	In-queue			
PI-1010-TS&M	Radar Detector for Ramp Metering Demonstration	Transportation Safety & Mobility	Zhongren Wang/ Lester Lee			2	In-queue			
		Safety & Mobility	Roberta McLaughlin			3	In-queue			
		Safety & Mobility	Haissam Yahya			4	In-queue			
	pavement markings	Transportation Safety & Mobility	Donald E. Howe, Sr			5	In-queue			
	Software Change Management	Safety & Mobility	Stan Slavin			6	In-queue			
PI-1015-TS&M	Developing of backup power systems for fields located ITS elements	Transportation Safety & Mobility	Martha Styer	Jerry Kwong	СТС	7	In-queue			
PI-1015-TS&M	Striping Performance Contract		Devinder Singh, Atifa Ferouz	TBD		8				new
PI-1015-TS&M	Pictograph on Memorial Signs with		Donald E. Howe	TBD						
PI-1015-TS&M	Shallow Posts for MBGR	Transporation Safety & Mobility	Randy Hiatt	TBD		9				new

PP	PI Title	PSC	Customer Rep	РМ	Investigator	Priority	Status	Kickoff Meeting	Close-out Meeting	Pl Results
	End Treatment Inventory Simplification of Preapproved Products List	Transporation Safety & Mobility	Randy Hiatt	TBD		11				new
PI-1015-TS&M	Tapered Edge Paving	Transportation Safety & Mobility	Chris Engelman	TBD		13				new
	Use of the Midwest Guardrail System	Transporation Safety & Mobility	Chris Engelmann	TBD		14				new
PI-1015-TS&M	Warranty Based Pavement Markings with Retroreflectivity	Transporation Safety & Mobility	Devinder Singh, Atifa Ferouz							
PI-1015-TS&M	Efficient Strategies for Underground Utilities Safely	Transporation Safety & Mobility	Yin Ping LI			15 16				new
PI-0109-TS&M	Crash Reduction Factor Update	Transportation Safety & Mobility	Thomas Schriber		СТС	Pilot	Completed		1/31/09	Satisfied with PI